

JAKIMOWICZ, Wladyslaw; SPETTOWA, Stanislaw; KIERZKOWSKA-DOBROWOLSKA,
Janina B.; POLTAWSKA, Wanda

Clinical observations on agenesis of the pellucid septum.
Neur. &c. polska 6 no.6:791-800 Nov-Dec 56.

1. Z Kliniki Neurologicznej A.M. w Krakowie Kierownik: prof.
dr. W. Jakimowicz, 1 z Kliniki Neurochirurgicznej A.M. w
Krakowie Kierownik: prof. dr. A. Kunicki, Krakow, Botaniczna 1.
(BRAIN, abnorm.
agenesis of pellucid septum (Pol))

S P E T T O W A, S.

EXCERPTA MEDICA Sec.14 Vol.11/3 Radiology Aug57.

1416. SPETTOWA S. Klin. Neurochir., Kraków. *Wypadnięcie jądra miażdżystego w przeglądowym i mielograficznym obrazie radiologicznym. Symptoms and differential diagnosis of the intervertebral disc protrusion POL. PRZEGL. RADIOL. 1956, 20/2 (101-118) Illus. 27

In 140 cases of the intervertebral disc protrusion plain radiography and pantopaque myelography were performed. In 49% positive signs as to the nature and localization of the lesion were present on a plain X-ray picture. Diminution of the disc space appeared in 95.5% of cases. The disc space was in more than half of the patients asymmetrical and larger on the side of clinical symptoms. Localized lipping of the vertebral bodies was seen in 39%, and marginal bone sclerosis in 17.3%. In 14.2% of 140 operated cases there were some developmental anomalies of the vertebrae, absence of normal lordosis in 45%, displacement of vertebral bodies in 37% and slight scoliosis in 9%. Most of the negative plain radiographies were in the lumbosacral disc protrusion but after a myelographic examination this proportion has fallen to 90%. Myelography frequently revealed a filling defect of the pantopaque column (52.6%). Myelographic signs of total or partial block of the spinal canal were present in 44.7% of cases. The lower border of the pantopaque column in cases of block has the form of a brush or a comb. It is irregular and ragged as in cicatricial meningeal strands. Cicatricial strands were sometimes encountered during the operation. In the differential diagnosis between disc protrusion, arachnoiditis and tumours, the author comes to the conclusion that spinal block in tumours is of longer duration, the blocks in disc protrusion being more transitory. In tumours a block is more often total. In the arachnoidal adhesions a diminution of the disc space is seen.

SPETTOWA, Stanislaw

Temporal tumors in pneumoencephalographic picture. Polski
prezegl.radiol. 23 no.6:355-417 N-D '59.

1. Z Kliniki Neurologicznej w Krakowie Kierownik: prof. dr
A. Kunicki.

(TEMPORAL LOBE neopl)
(VENTRICULOGRAPHY)

SPETTOWA, Stanislaw

Value of pneumoencephalography in the diagnosis of gliomas. Neur.
&c.polska 10 no.5:611-620 '60.

1. Z Kliniki Neurochirurgii A.M. w Krakowie, Kierownik: prof. dr
med. A.Kunicki.

(VENTRICULOGRAPHY)

(GLIOMA radiog)

(BRAIN NEOPLASMS radiog)

SPETTOWA, Stanislaw

Angiographic picture of pathological vascularization of the brain
Neur. &c. polska 10 no.5:621-630 '60.

1. Z Kliniki Neurochirurgicznej A.M. w Krakowie, Kierownik: prof.
dr med. A.Kunicki.

(CEREBRAL ANGIOGRAPHY)

SPETTOWA, Stanislaw; CHRZANOWSKI, Ryszard

Radiologic picture of arteriovenous aneurysms of the brain. Polski
przegl. radiol. 25 no.1:3-24 '61.

1. Z Kliniki Neurochirurgicznej AM w Krakowie. Kierownik: prof. dr
A. Kunicki.

(BRAIN blood supply)
(FISTULA ARTERIOVENOUS radiog)

SPETTOWA, Stanislaw; CHRZANOWSKI, Ryszard

Radiologic picture of tumors of Rathke's pouch. Polski przegl. radiol.
25 no.1:25-46 '61.

1. Z Kliniki Neurochirurgicznej AM w Krakowie. Kierownik: prof. dr
A Kunicki.

(PITUITARY GLAND ANTERIOR neopl)

SPETTOWA, Stanislaw; CHRZANOWSKI, Ryszard

Comparative value of arterial and venous angiograms in the diagnosis of tumors of the brain. Acta med. Pol. 4 no. 4: 361-376 '63.

Changes in the superficial venous system in cases of tumors of the brain. 377-397

1. The Neurosurgical Clinic, Medical Academy, Cracow. Director: Prof. Dr A. Kunicki.

*

SPETTOWA, Stanisława; JEDLIŃSKA, Maria

Angiography of neoplastic metastases to the brain. Pol. przeł.
radiol. 27 no.2:101-112 '63.

1. Z Kliniki Neurochirurgicznej AM w Krakowie Kierownik:
prof. dr A. Kunicki.

(BRAIN NEOPLASMS) (NEOPLASM METASTASIS)
(CEREBRAL ANGIOGRAPHY)

SIENKOWA, Stanisława; CHRECIANOWSKI, Ryszard

Patterns of the cerebral veins in cases of subdural and
epidural hematoma. Acta med. Pol. 4 no.3:293-302 '64.

1. The Neurosurgical Clinic, Medical Academy, Cracow
(Director: Prof. Dr. A. Kunicki).

SPETTOWA, S.; JEDLINSKA, M.; KUSMIDERSKI, J.

Determination of the type of neoplasm using cerebral angiography.
Neurol. neurochir. psychiat. Pol. 14 no. 2:219-223 Mr-Apr '64.

1. Z Kliniki Neurochirurgicznej AM w Krakowie (Kierownik:
prof. dr A.Kunicki) i z Zakładu Neuroradiologii (Kierownik:
prof. dr S.Spettowa).

SPETTOWA, Stanisława; JEDLIŃSKA, Maria; KUSMIDERSKI, Józef

Differentiation of cerebral tumors with the aid of angiography.
Neurol., neurochir., psychiat. Pol. 14 no.3: 463-467 My-Je '64

1. Z Kliniki Neurochirurgii Akademii Medycznej w Krakowie (Kierownik: prof. dr. A. Kunicki) i z Zakładu Neuroradiologii Kliniki Neurochirurgii Akademii Medycznej w Krakowie (Kierownik: prof. dr. S. Spettowa).

SPETTOWA, Stanislaw; SIKORSKA, Barbara; KUSNIDEBSKI, Jozef

Pneumoencephalographic picture paracerebral hematomas. Neurol.,
neurochir., psychiat. Pol. 14 no.3:455-462 My-Je '64

Angiography in sub- and epidural hematomas. Ibid.:469-475

1. Z Kliniki Neurochirurgii Akademii Medycznej w Krakowie.
(Kierownik: prof. dr. med. A. Kunicki).

SPETTOWA, Stanislaw

Angiography of glioblastoma multiforme. Acta med. pol. 6 no.3:
347-357 '65.

1. Department of Neuroradiology of the Neurosurgical Clinic
(Director of the Clinic: Prof. Dr. A. Kunicki; Director of
the Department: Prof. Dr. St. Spettowa).

SPEVACEK, J.

BOBEK, Karl; PETERA, Voytek; LAN, Vilem; INDRA, Yaroslav [Jndra, J.];
KARLICHAK, Vyacheslav; SPEVACHEK, Yarmilo [Spevaček, J.]

Transaminases and Botkin's disease [with summary in English].
Klin.med. 37 no.1:33-40 Ja '59. (MIRA 12:3)

1. Iz kliniki vnutrennikh bolezney (zav. - prof. K. Bobek) i infektsionnogo otdeleniya Oblastnogo isnitituta narodnogo zdravookhraneniya (zav. I. Zdrzhil) v Pil'zene (Chekhslovakiya).

(HEPATITIS, INFECTIOUS, blood in
glutamic oxalacetic & glutamic pyruvic transaminases
(Rus))

(TRANSAMINASES, in blood
glutamic oxalacetic & glutamic pyruvic transaminases
in infect. hepatitis (Rus))

BOGDANOVA, V.I.; DOVGIALLO, V.P.; KUL'ZHONKOV, Ye.O.; POPOV, Ye.I.;
RUTKOVSKIY, O.O.; SPEVACHEVSKIY, G.Yu.; NAZAREVSKIY, O.R.,
retsenzent; TRIFONOV, V.I., retsenzent; LEVITAS, I.G., red.;
USENKO, L.A., tekhn. red.

[Moscow - Central Asia; railroad guide] Moskva - Srednii
Azia; zheleznodorozhnyi putevoditel'. Moskva, Transzheldor-
izdat, 1962. 205 p. (MIRA 16:3)
(Railroads—Guides)

BOBEK, Karel; PETRA, Vojtech; LAHN, Vilem; JINDRA, Jaroslav; Karlicek, Vaclav;
SPEVACKOVA, Jarmila, Technicka spoluprace.

Transaminases in infective hepatitis. Cas. lek. cesk. 96 no.51:1571-
1576 20 Dec 57.

1. Klinika Chorob vnitřních (prednosta prof. Dr K. Bobek) a infekční
oddelení KUNZ (prednosta prim. Dr J. Zdaril) v Plzni.

(HEPATITIS, INFECTIOUS, in blood

glutamic oxalacetic & glutamic pyruvic transaminases,
diag. value (Cz))

(TRANSAMINASES, in blood

glutamic oxalacetic & glutamic pyruvic transaminases in
infect. hepatitis, diag. value (Cz))

SAMAN, K.; LAHN, V.; VIRT, S.; technicka spoluprace SPEVACKOVA, J.

Excretion of 5-hydroxyindolacetic acid in glaucoma patients. Cesk.
ofth. 17 no.7:487-494 N '61.

1. Očni klinika lékařské fakulty KU v Plzni, přednosta prof. dr.
R. Knobloch Interní klinika lékařské fakulty KU v Plzni, přednosta
prof. dr. K. Bobek.

(GLAUCOMA urine) (INDOLACETIC ACID urine)

LAHN, Vilem; SUVA, Josef. Technicka spoluprace: SPEVACKOVA, J.; MATEJKOVA, B.

Sorbitol dehydrogenase activity in experimental liver diseases.
Plzen, lek. sborn. 23: 5-9 '64

1. Ustredni biochemicke laboratore SFN v Plzni (prednostas: MUDr.
RNDr. V. Lahn) ; Ustav pro farmakologie lekarske fakulty Univer-
sity Karlovy se sidlem v Plzni, (prednostas: prof. MUDr. Zd.
Köcher).

~~Antonin Spevak~~ SPEVAK, Antonin
CZECHOSLOVAKIA/Analysis of Organic Substances.

G-3

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 19675

Author : Miroslav Vecera, Antonin Spevak.

Title : Organic Quantitative Analysis. VII. Rapid Photometric
Determination of Little Sulphur Contents in Organic and
Inorganic Materials.

Orig Pub : Chem. listy, 1956, 50, No 5, 765-769; Sb. chekhosl. khim.
rabot, 1956, 21, No 5, 1278-1283

Abstract : A rapid photometric method based on the reduction with
metallic K was developed; this method allows to deter-
mine 0.005 to 8% of S with a satisfactory exactitude in
samples of solid and liquid substances weighing from
150 μ to 25 mg. The substance is fused with a piece
(4 x 4 x 12 mm) of metallic K in a sealed ampoule of 5
mm inside diameter, 120 mm long and the glass being 1
mm thick. The fusion is treated with diluted HCl (spe-
cific weight 1.10) in a special distillation device

Card 1/2

- 1 -

SPĚVÁK, A.

1243. Organic quantitative analysis. VII. Rapid colorimetric determination of small amounts of sulphur in organic and inorganic material. M. Větera and A. Spěvák (Res. Inst. Org. Synth., Pardubice, Czechoslovakia). *Chem. Listy*, 1958, 50 (5), 785-789. —When treated with metallic potassium in a sealed tube, the sulphur in the sample

is converted into sulphide. From the acid solution, H_2S can be distilled off and determined photometrically, with *p*-amino-NN-dimethylaniline. The procedure is suitable for the determination of sulphur in inorganic and organic materials, in a concentration range of 0.005 to 8% of S. J. Žitka

~~Antonin~~ Spevak. ANTONIN

Distr: hE2c(j)

Organic quantitative analysis. XVII. Determination of small amounts of chlorine and bromine in organic compounds. Miroslav Vacek and Antonin Sedláček (Výzkumný ústav org. syntézy, Pardubice-Rybitz, Czech.). Chem. listy 51, 2037-40 (1957); cf. C.A. 52, 980b. — Combustion of an org. compd. in O is carried out in a quartz tube and the HCl or HBr obtained by absorption of the gaseous products in H₂O is detd. colorimetrically by the reaction with Hg(SCN)₂ and Fe³⁺. The method is suitable for detg. 0.01-2% Cl or Br; as the percentage of halogens increases the accuracy decreases. Ignite a 1-15-mg. sample in O (15 ml./sec.) for 20-40 min., absorb the exit gases in 2 ml. 6% H₂O₂, add 2 ml. of a soln. contg. 0.3 g. Hg(SCN)₂ in 100 ml. warm MeOH, and 4 ml. of a soln. contg. 0 g. NH₄Fe(SO₄)₃ in 100 ml. 6N HNO₃, dil. to 25 ml., and measure the absorption with a filter with max. transmittance at 470 mμ.

M. Hudlický

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CZECHOSLOVAKIA/Fitting Out of Laboratories. Instruments.
Their Theory, Construction, and Use.

F.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 28586
Author : Sekerka, B., Spevak, A., and Friedrich, K.
Inst : -
Title : Infrared Indication in Gas Chromatography.
Orig Pub : Chem Prumysl, 7, No 11, 602-604 (1958) (in Czech with
summaries in English and Russian)
Abstract : The results obtained from the utilization of thermistors
in the dispersion-free IR-indication of the components
of mixtures analyzed by gas-liquid partition chromatogra-
phy are discussed.

Card 1/1

~~ANTONIN SPEVAK~~ SPEVAK, Antonin
CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

E-3

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46452
Author : XVII - Miroslav Vecera, Jiri Borecky. XVIII - Miroslav Vecera, Jaromir Petranek, Jiri Gasparic. XIX - Miroslav Vecera, Jiri Gasparic, Antonin Spevak.
Inst : -
Title : Identification of Organic Substances. XVII. Identification of Anthraquinone Sulfoacids. XVIII. Chromatography of Aromatic Hydrazo Compounds. XIX. Microidentification of Lower Aliphatic Alcohols and O-Alkyl and N-Alkyl Groups by Paper Chromatography.
Orig Pub : Chem. listy, 1957, 51, No 5, 974-976; No 8, 1553-1554; 1554-1556; reports VII, VIII, Collect. czechosl. chem. commun., 1958, 23, No 1, 130-133; No 2, 333-335.
Abstract : XVII. The benzylthiuronic (I) and 1-naphthylmethylthiuronic (II) salts of mono- and disulfo acids of

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CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

E-3

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46452

anthraquinone are suitable for the identification of the latter. The ultraviolet spectra of these salts are close, but their melting points and eutectic temperatures in mixtures with dicyanamide are different. The salts are precipitated by mixing aqueous solutions of reagents and in the majority of cases, they are recrystallized from 30 to 80%-ual C_2H_5OH , and some from $CH_3OH + (CH_3)_2CO$. Melting points measured under microscope or in a capillary and the eutectic temperatures of mixtures with dicyandiamide (about 1 : 1) of I and II of all isomer anthraquinone sulfoacids are presented. I is more suitable for the identification than II, because it melts more distinctly.

XVIII. The aromatic hydrazo compounds (III) are separated chromatographically and identified on Watman paper No 4 treated with 25%-ual dimethylformamide solution in

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CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

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Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46452

in alcohol (IV) or 10%-ual solution of formamide in alcohol (V) and dried. From 0.5 to 200 γ of the sample in 0.1 to 1%-ual alcohol or ether solution is put on the paper. It is developed by the descending method at $21 \pm 1^\circ$ with cyclohexane or benzene. The dried chromatogram is sprayed with 1%-ual solution of n-dimethylaminobenzaldehyde (VI) in 95 parts of alcohol and 5 parts of concentrated HCl. At this occasions the III-s regroup into corresponding diamines, which together with VI yield products of characteristic color and fluorescence presented in the report. The values of R_f 8 of III-s are also presented. This method permits to chromatograph several hundreds of γ of the substance and to identify 0.5 γ of a III.; it can be used for the control of the benzidine regroupation at industrial scale. For that purpose, 10 ml of the reaction solution is

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CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic Substances.

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Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46452

alkalized with 5 ml of 50%-ual KOH solution and shaken with 5 ml of C_6H_6 . From 10 to 30 ml of the extract is put on the paper soaked in V, it is developed in a test tube with cyclohexane by the ascending method and treated with VI solution. The chromatographic method is recommended also for the purification of III: 60 g of silica gel (VII) is saturated with 24 ml of IV, suspended in petroleum ether (VIII) and a column 25 mm in diameter is prepared. 2 g of the substance is dissolved in 1 ml of IV, VII is added and the mixture is transferred on the column, which is developed first with 200 ml of VIII and with the mixture VIII - C_6H_6 (4 : 1) after that. XIX. The lower alkyl groups ($C_1 - C_3$) are identified in the shape of corresponding alkyl-3,5-dinitrobenzoates (IX). In order to convert alcohols (X) into IX-s, 0.1 ml of pyridine (XI) and 1 ml of C_6H_6 are added to 10 ml

Card 4/6

CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Organic
Substances.

E

Abs Jour: Ref Zhur-Khin., No 23, 1958, 77363.

Author : Vecera M., Gasparic J., Spevak A.

Inst :

Title : Identification of Organic Substances. XIX. Microidenti-
fication of Aromatic Aliphatic Alcohols, O-Alkyl
and N-Alkyl Groups with Paper Chromatography.

Orig Pub: Collect. czechosl. chem. commun., 1958, 23, No 4, 768-770.

Abstract: See RZhKhim., 1958, 46452.

Card : 1/1

COUNTRY : Czechoslovakia E-3
CATEGORY : Analytical Chemistry, Analysis of Organic
Substances.
ABS. JOUR. : RZhKhim., no. 1958, No. 23128
AUTHOR : Vecera, M.; Sprevak, A.
TIT. :
TITLE : Quantitative Organic Analysis. XVII. Determination of Small Amounts of Chlorine and Bromine in Organic Substances.
ORIG. PUB. : Collect. czechosl. chem. commun., 1958, 23, No 7, 1197-1201
ABSTRACT : See RZhKhim, 1958, 73760.

CARD: 1/1

Antonin opavak

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2. may

Organic quantitative analysis. XIX. Microdetermination of alkoxy groups. Miroslav Večera and Antonín Spěvák (Výzkumný ústav org. syntes, Pardubice-Rybitví, Czech.). *Chem. listy* 52, 1520-5 (1958); cf. *C.A.* 52, 4393g. —The microdetn. of O-bound alkyl groups C₁-C₄ was modified in that the interfering compds. were adsorbed on dry tartar emetic on silica in a modified app. according to Shaw (*C.A.* 41, 7810i) instead of the usual absorption in liquids. The detn. is as precise as the methods of microelementary analysis. XX. Microassay of chlorine in organic compounds by combustion in an empty tube. Miroslav Večera and Jaroslav Buláček. *Ibid.* 1520-38. —In the described method the compd. is heated at 720° in a stream of O in an empty tube (*C.A.* 51, 16207b), Cl is absorbed in dil. H₂O₂, and Cl⁻ titrated with 0.01N AgNO₃ with brilliant yellow as adsorption indicator. The possible sources of errors were investigated, and statistical evaluation of 78 results are presented. L. J. Urbánek

RG

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CISKOBA, Karel; NAVRATIL, Frantisek; SILEYAK, Antonin; PETUSIL, Zdenek

Chromatographic identification and determination of nitroanthraquinone mixtures. Chem prum 15 no.2:95-99 F '65.

1. Research Institute of Organic Syntheses, Pardubice-Rybitvi.

L 21107-66 RO
ACC NR: AP6008792

(A)

SOURCE CODE: CZ/0009/65/000/011/0682/0685

AUTHOR: Spevak, Antonin, Kratochvil, Vaclav—Kratokhvil, Vatslav

ORG: Research Institute for Organic Synthesis, Pardubice-Rybitvi (Vyzkumny ustav organickch syntez)

TITLE: Rapid semiquantitative determination of phosgene concentration in the air

SOURCE: Chemicky prumysl, no. 11, 1965, 682-685

TOPIC TAGS: air pollution, phosgene

ABSTRACT: A new color reaction was employed for the detection of phosgene in the air using test tubes. The presence of phosgene is indicated by a distinct change in color. Due to their sensitivity (0.2 g of phosgene per liter), the new tubes can be used for checking air pollution by phosgene in various chemical plants. A comparison with other reactions used for this purpose is given. Orig. art. has: 2 tables. [Author's abstract.] [KS]

SUB CODE: 07, 13/ SUBM DATE: 18Aug65/ ORIG REF: 004/ OTH REF: 019/ SOV REF: 002

UDC: 546.264.131-31
614.71/.72
545.72

Card 1/1 *dia*

SPEVAK, F.I.

Water-borne Vibrio in Kola Bay. Zhur.mikrobiol.epid.i immun. 32
no.3:115-120 Mr '61. (MIRA 14:6)
(KOLA BAY--MICROBIOLOGY) (VIBRIO)

SECRET

14 07/01 1948

USSR/Physics
Mechanics
Mathematics, Applied

Jun 48

"Determination of the Partition Function for Non-equilibrium Systems in the Presence of Transitions,"
Ye. A. Vaynrib, G. V. Spevak, 7 pp

"Zhur Eksper i Teoret Fiz" Vol XVIII, No 6

Discusses development of a general method of finding subject functions. Found for cases where one transfers neutral substances, charges, energy, forces, or moments through system of particles, as well as for systems having gradients of temperature or con-

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USSR/Physics (Contd)

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centration and which are subjected to electric and magnetic forces. Calculates transfer phenomenon for Maxwell-Boltzmann, Fermi, and Bose-Einstein statistics.

6/49T100

SPEVAK, J.

SPEVAK, J. Czechoslovak railway-wagon building industry on foreign markets.
p. 36.

CZECHOSLOVAK HEAVY INDUSTRY
TECHNOLOGY
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SPEVAK, Jaromir

School and practice. Drevo 17 no.7:223-227 J1 '62.

1. Jihoceske drevarske zavody, Ceske Budejovice.

VASIL'YEV, L.I.; SPEVAK, L.A.

Effect of the rate and degree of plastic stretch elongation on the relaxation on the following deformability of metals. Part 2. Fiz.met. i metalloved. 2 no.1:146-148 '56. (MIRA 9:7)

1.Sibirskiy fiziko-tehnicheskii institut.
(Creep of metals) (Deformations (Mechanics))

KONSTANTINOV, B.A., prof. (Leningrad); BELITSKIY, G.Yu., prof. (Leningrad);
NOVIKOV, G.Ye., inzh. (Yaroslavl); SIEVAK, I.B., inzh. (Minsk);
KOZLOV, I.V., inzh. (Riga)

Study of the special features of electrical conductivity of the
human body. Elektrichestvo no.5:84 My '65.

(MIRA 13:6)

SPEVAK, L.B., inzh.; OVCHINNIKOV, V.M., inzh.

Protection of people from lightning-induced overvoltages in
household lighting networks. Prom.energ. 20 no.12:18-20 D
'65. (MIRA 18:12)

ŠPEVAK, MILES

16016* (What Are We Expecting From Plants Which Treat
Non-Ferrous Metals.) Co očekáváme od závodů na zpracování
neželezných kovů. Miloš Špěvak. Hutnické Listy, v. 9, no. 6,
June 1954, p. 348-351.
World consumption and production trends in non-ferrous metals.
Comparison with trends in steel statistics. Graphs.

Met

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p>SPEVAK, M.</p> <p>A</p> <p>284-J. Short-Time Annealing. (In Czech.) Milan Spevak. Hutnickská Lésky, v. 5, July 1980, p. 276-277.</p> <p>Results of a study of effects of various cold working and annealing factors on recrystallization of a 6% Sn bronze. (J24, N8, Cu).</p>																																																			
<p>ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>1ST AND 2ND ORDERS</p> <p>3RD AND 4TH ORDERS</p> <p>5TH AND 6TH ORDERS</p> <p>7TH AND 8TH ORDERS</p> <p>9TH AND 10TH ORDERS</p> <p>11TH AND 12TH ORDERS</p> <p>13TH AND 14TH ORDERS</p> <p>15TH AND 16TH ORDERS</p> <p>17TH AND 18TH ORDERS</p> <p>19TH AND 20TH ORDERS</p> <p>21ST AND 22ND ORDERS</p> <p>23RD AND 24TH ORDERS</p> <p>25TH AND 26TH ORDERS</p> <p>27TH AND 28TH ORDERS</p> <p>29TH AND 30TH ORDERS</p> <p>31ST AND 32ND ORDERS</p> <p>33RD AND 34TH ORDERS</p> <p>35TH AND 36TH ORDERS</p> <p>37TH AND 38TH ORDERS</p> <p>39TH AND 40TH ORDERS</p> <p>41ST AND 42ND ORDERS</p> <p>43RD AND 44TH ORDERS</p> <p>45TH AND 46TH ORDERS</p> <p>47TH AND 48TH ORDERS</p> <p>49TH AND 50TH ORDERS</p> <p>51ST AND 52ND ORDERS</p> <p>53RD AND 54TH ORDERS</p> <p>55TH AND 56TH ORDERS</p> <p>57TH AND 58TH ORDERS</p> <p>59TH AND 60TH ORDERS</p> <p>61ST AND 62ND ORDERS</p> <p>63RD AND 64TH ORDERS</p> <p>65TH AND 66TH ORDERS</p> <p>67TH AND 68TH ORDERS</p> <p>69TH AND 70TH ORDERS</p> <p>71ST AND 72ND ORDERS</p> <p>73RD AND 74TH ORDERS</p> <p>75TH AND 76TH ORDERS</p> <p>77TH AND 78TH ORDERS</p> <p>79TH AND 80TH ORDERS</p> <p>81ST AND 82ND ORDERS</p> <p>83RD AND 84TH ORDERS</p> <p>85TH AND 86TH ORDERS</p> <p>87TH AND 88TH ORDERS</p> <p>89TH AND 90TH ORDERS</p> <p>91ST AND 92ND ORDERS</p> <p>93RD AND 94TH ORDERS</p> <p>95TH AND 96TH ORDERS</p> <p>97TH AND 98TH ORDERS</p> <p>99TH AND 100TH ORDERS</p>																																																			

ZYAZEV, V.L.; SPEVAK, N.D.; DONSKOY, A.Ye.; TANUTROV, I.N.

Vacuum treatment of liquid copper. TSvet. met. 35
no.7:32-37 JI '62. (MIRA 15:11)
(Copper--Metallurgy) (Vacuum metallurgy)

SPEVAK, V.

PA 38/49T72

USSR/Engineering
Refrigeration
Efficiency, Industrial

Jan/Mar 49

"Competition for the Title of Superior Quality Brigade," A. Muzykantov, V. Spevak, 4 pp

"Kholodil Tekh" No 1

Within enterprises of Glavkhladprom 75 brigades are competing for subject title, which carries an award of up to 50% of the monthly salary of the brigade.

38/49T72

1. SPENAK, V.
2. USSR (600)
4. Meat Industry
7. Factory of exceptional quality. Mias. ind. SSSR 23 no.5 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

SPHAK, V.

The exhibit building of the Main Administration of the Meat
Industry. Mas.ind. SSSR. 25 no.4:27-29 '54. (MIRA 7:8)
(Moscow--Exhibition buildings) (Exhibition buildings--
Moscow)

SPEVAK, V.

"Health day". *Mias. ind. SSSR* 29 no.5:33-34 '58. (MIRA 11:10)
(Meat industry--Sanitation)

SPEVAK, VENDELIN.

Fejogepek, onitatok, fuggovasutak. Bratiszlava, Allami
Mezogazdasagi Konyvkiado, 1953. 71 p. (Mezogazdasag
gepesitese, v.4) /Milking machines, automatic fountains,
and suspension railways. In Hungarian. Tr. from the Slovak/
DA Not in DLC

SOURCE: East European Accessions List, (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

SPEVAK, V.

Third Plenum of the Central Committee of the Trade Union of Food Industry
Workers. Mias.ind. SSSR 33 [i.e.34] no.2:56-57 '63.

(MIRA 16:4)

(Trade unions)

KALOUS, M., inz.; SPEVAK, V., inz.; SIMON, O., inz.

Transportation of loose materials from free storage depots.
Inz stavby 12 no.9:Suppl.:Mechanizace no.9:140-146 '64.

1. Research Institute of Building Construction, Prague.

AID P - 4827

Subject : USSR/Engineering
Card 1/2 Pub. 107-a - 13/13
Author : Spevak, V. Ya.
Title : New machines and apparatuses for gas and flame treatment of metals shown in foreign expositions in 1955.
Periodical : Svar. proizv., 3, 29-32, Mr 1956
Abstract : Expositions held in Germany and Switzerland exhibited several pieces of welding equipment, such as an oxygen welding apparatus capable of cutting steel up to 70 mm, built by the Paul Bach (?) firm, the MN-90 portable cutter built by the Kehlbert-Eberle firm (Frankfurt-am-Main), the transferrable 300-S cutting machine, built by the Messer Firm (Frankfurt-am-Main), and the "Konstanta" attachment to the manual cutter. These and other such electric and gas welding equipment are described by the author of this article. Five photos and 1 drawing.

Svar. proizv., 3, 29-32, Mr 1956

AID P - 4827
CIA-RDP86-00513R001652710004-5"

Card 2/2 Pub. 107-a - 13/13

Institution : None

Submitted : No date

SPEVAK, V.Ya., inzhener.

Gas flame surface hardening of locomotive wheel pins. Vest.
mash. 37 no.2:90 F '57. (MLRA 10:2)

(Steel--Hardening) (Wheels)

ZAK, P.S.; ZHURAVLEV, V.L.; ROMANOV, V.A., otv.red.; SADOMOV, N.T.,
red.; GOTOVTSEV, A.A., red.; GRINBERG, A.Ya., red.; ZUEKOV, V.T.,
red.; KOGAN, A.M., red.; KRUGLIKOV, A.V., red.; REBGUN, K.K.,
red.; NAZIMOV, N.M., red.; NEYMARK, A.M., red.; MOTYAKHOV, M.A.,
red.; SPEVAK, V.Ya., red.; TEMENBAUM, M.M., red.; SHNEIDER, E.I.,
red.; ALADOVA, Ye.I., tekhn.red.; SEKIYAR, S.Ya., tekhn.red.

[Design and manufacture of globoid gears] Proektirovanie i
izgotovlenie globoidnykh peredach. Moskva, Ugletekhizdat, 1958.
87 p. (Tekhnologiya ugol'nogo mashinostroeniia, no.2).
(MIRA 13:2)

(Gearing)

SPEVAK, Yu.A.

Solution gas in the horizon 9 of the Gazli gas field. Trudy
VNIIGAZ no.15:144-157 '62. (MIRA 15:8)
(Gazli region--Water, Underground--Composition)
(Gazli region--Gas, Natural--Geology)

SPEVAK, Yu.A.; STADNIK, Ye.V.; ZOR'KIN, L.M.

Composition and elasticity of the dissolved gases of the Mesozoic
sediments of the Karpinsk Range. Geol. nefti i gaza 8 no.11:
37-41 N '64. (MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza.

KORTSENSHTEYN, Vol'f Nukhimovich, doktor geol.-miner. nauk; Prini-
mali uchastiye: SPEVAK, Yu.A.; ZHIGALIN, B.I.; MUKHIN,
Yu.V., kand. geol.-miner. nauk, nauchnyy red.; BOGACHEVA,
N.G., ved. red.; STAROSTINA, L.D., tekhn. red.

[Methods for hydrogeological studies of oil- and gas-
bearing regions] Metodika gidrogeologicheskikh issledovaniy
neftegazonosnykh raionov. Moskva, Gostoptekhizdat, 1963.
167 p. (MIRA 16:5)

(Oil field brines)

SPEVAK, Yu.A.

Hydrogeological features of the Volga Valley portion of Astrakhan Province and the Kalmyk Steppes in connection with evaluating the prospects for gas potential. Trudy VNIIGAZ no.22:323-357. 1964.

(MIRA 17:19)

AC, F.; SPEVAK-MARINKOVIC, Ljubica

Dust in hemp factories as a cause of respiratory diseases in workers.
Arh hig rada 11 no.3:221-231 '60.

1. Higijenski zavod AP Vojvodine, Novi Sad i Glavna pokrajinska bolnica, Novi Sad.

(DUST) (RESPIRATORY TRACT INFECTIONS etiol)
(INDUSTRIAL MEDICINE)

SPESAR MARINKOVIC, Ljubica

Pericarditis in systemic lupus erythematosus. Srpski arh.
ginek. lek. 92 no.9:897-902 S'64.

1. Interna klinika Medicinskog fakulteta Univerziteta u
Novom Sadu (Upravnik: prof. dr. Dimitrije Stanulovic).

SPEVAK-MARINKOVIC, Ljubica

Frequency of gastroduodenal ulcer in chronic pulmonary diseases.
Med. pregl. 18 no.1:15-18 '65.

1. Klinika za interne bolesti Klinicke bolnice u Novom Sadu
(Nacelnik: Prof. dr. Dimitrije Stanulovic).

SPEVAK-MARINKOVIC, Ljubica; MILETIC, Slavko

A case of Libman-Sacks endocarditis in systemic lupus erythematosus.
Med. pregl. 18 no.3:113-115 ' 65.

1. Klinika za interne bolesti Klinicke nollnice u Novom Sadu
(Nacelnik: Prof. dr. Dimitrije Stanulovic).

SPEVAK-MARINKOVIC, Ljubica; PAP, Jozef

A case of Reiter's syndrome. Med. pregl. 18 no. 5:177-179
' 65.

1. Klinika iz interne bolesti Klinicke bolnice u Novom Sadu
(Nacelnik: Prof. dr. Dimitrije Stanulovic).

SPEVAK-MARINKOVIC, Ljubica

Food poisoning and its treatment. Med. pregl. 18 no. 5:209-211
' 65.

1. Klinika za interne bolesti Klinicke bolnice u Novom Sadu
(Nacelnik: Prof. dr. Dimitrije Stanulovic).

YUGOSLAVIA

SPEVAK-MARINKOVIC, Ljubica, and AG, P.; Clinic of Internal Medicine and Institute for Public Health of the A[utonomous] P[rovince of] V[oivodina,] (Interna klinika i Institut za zdravstvenu zastitu APV,) Novi Sad.

"Manifestations and Causes of Byssinosis in the "T.I.V.A."

Zagreb, Arhiv za Higijenu rada i Toksikologiju, Vol 16, No 3, 1965; pp 259-266.

Abstract [German summary modified]: Study in 200 workers in a factory manufacturing surgical cotton products in Novi Sad, all except 28 being women; relatively high number of instances of allergic respiratory and cutaneous manifestations, understandable in view of the relatively poor working conditions, especially air contamination within the plant. Two tables, 4 graphs; 3 Yugoslav and 31 Western references; ms rec 27 Feb 65.

1/1

SPEVAKOV, F. M.

95
S/009/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fizevskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mossbauer effect; M. I. Ryazanov, theory of ionisation losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Rukhadse, h-f conductivity of subcritical plasma;

Card 1/4

SPEVAKOV, K.S., inzh.

Statistifal control of the production quality in the tractor and
agricultural machinery manufacture. Trakt. i sel'khoz mash. 33 no.
8:41-42 Ag '63. (MIRA 16:11)

1. Zavod "Serp i molot" (Khar'kov).

SPEVAKOV, K.S., inzh.; AVRAMOV, P.P., inzh.

Operating reliability of automatic lines. Mashinostroenie no.3:
15-17 My-Je '64. (MIRA 17:11)

SPEVAKOV, K.S.

Automatic controlled machining of the connecting rod of the SMD-14
engine. Titl. Tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch.
i tekhn. inform. 17 no. 43-47 Je '64.

(MIRA 17:11)

SPEVAKOV, K.S., inzh.

Automation of the assembly of units of the SMD-14 engine. Trakt. i
sel'khoz mash. no. 7:43-44 J1 '64. (MIRA 18:7)

1. Zavod "Serp i molot".

SPEVAKOV, K.S., inzh.

Automatic machining of cylinder covers of the SMD-14 engine.
Mashinostroenie no.1:90-93 Ja-F '65. (MIRA 18:4)

SPEVAKOV, K.S., inzh.

Relationship between the efficiency and automation level in
introducing new equipment and new technological processes.
Mashinostroenie no.2:16-19 Mr-Ap '65. (MIRA 18:6)

SPEVAKOV, K.S., inzh.

Automatic control of milling and broaching operations in
machining a block-crankcase. Mashinostroenie no.6:14-15
N-D '65. (MIRA 18:12)

SPEVAKOV, M. I.

2576 SPEVAKOV, M. I. Osnounye formuly dlya sostavleniya pasportov poperechno-strogal'nykh i dolbeznykh stankov. Izvestiya Rost. in-ta in-zhenerov zh-d. transporta, vyp. 14, 1949, s. 55-96

SC: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

SPETAKOV, P. I., Eng.

Electric Lines - Overhead

Removable assembly platform for the installation of electric transmission line cables.
Rab. energ. 3, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

SPEVAKOV, P.I., inzh.

Concerning the brevity of single-phase short-circuit current in
380/220v. power distribution networks. Prom.energ. 17 no.7:39-
40 JI '62. (MIRA 15:7)
(Electric power distribution)

SPEVAKOV, P.I., inzh.

Selection of steel strips as electric conductors for grounding
equipment. Prom.energ. 18 no.1:33-38 Ja '63. (MIRA 16:4)
(Bus conductors (Electricity))

SPEVAKOV, P.I.

Use of the aluminum sheathing of a cable as a zero line in premises with explosion hazards. Prom. energ. 18 no.7:43-44 J1 '63.
(MIRA 16:9)

1. Ukrainskiy gosudarstvennyy proyektnyy institut po proyektirovaniyu elektrosnabzheniya dlya tyazheley promyshlennosti.
(Electric power distribution)

SPEVAKOV, P.I., inzh.

Determination of the design resistance of a grounding loop.
Elektrichestvo no.9:71-75 S '65.

(MIRA 18:10)

1. Ukrainskiy gosudarstvennyy proyektnyy institut Tyazhpormelektro-
proyekt, Khar'kov.

SPEVAKOVA, F. M., GASHEV, M. A., KOMAR, E. G., MONOSZON, N. A., STOLOV, A. M.

"The Power Supply System of the 10 GeV Synchrotron Electromagnet,"
paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments,
No. 1, pp. 21-30, 1957

8(5),8(1)

AUTHORS:

Gashev, M. A., Komar, Ye. G., Monoszon, N. A., Spevakova, F. M.,
Stolov, A. M.

SOV/105-60-1-2/25

TITLE:

The Supply System of the Electromagnet for the Proton-
synchrotron at the Consolidated Nuclear Research Institute

PERIODICAL:

Elektrichestvo, 1960, Nr 1, pp 6-10 (USSR)

ABSTRACT:

The biggest particle accelerator is at present the proton-synchrotron of the Ob"vedinennyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research). Protons with energies of up to 10 billions ev are obtained here. The supply system of the electromagnet is used for the production of a periodically alternating magnetic field with a repetition frequency of 5 per minute in the acceleration chamber of the proton-synchrotron. The main rated data of the supply system are: peak output 140 Mw, peak amperage 12.8 ka, peak voltage 11 kv, the energy stored in the magnetic field of the electromagnet 148.10^6 joule and the losses in the coil of the electromagnet 4 Mw. While connecting the coil of the electromagnet to the direct voltage, the current increases in accordance with ~~ax~~

Card 1/4

The Supply System of the Electromagnet for the SOV/105-60-1-2/25
Proton-synchrotron at the Consolidated Nuclear Research Institute

exponential curve with a time constant of $T = 25$ seconds. When the current has reached 12.8 ka, the voltage changes its sign and the current drops. The source for the direct voltage is a system of synchronous generators driven by induction motors and of converters. The latter operate as rectifiers during the increase of the current and as inverters during the drop of the current. The schematic circuit diagram of the supply system of the electromagnet is shown in figures 1 and 2 and explained. The reduction of the output impulses in the supply system of the aggregate motors is obtained with the help of fluid slip controllers. The sealed pentode-ignitrons of type IVU 100/1500 ²⁸ with a mean rated current of 100 a and a return voltage of 15 kv, specially developed at the Vsesoyuznyy elektrotekhnicheskii institut (All-Union Electrotechnical Institute) are used as valves for the converter installation. The method of operation of the valves is explained in detail and the influence of distributed capacitances on the operation of the valves is pointed out. These capacitances cause strong high-frequency oscillations with frequencies of dozens of kilocycles. The measures taken for eliminating these influences are mentioned.

Card 2/4

The Supply System of the Electromagnet for the Proton-synchrotron at the Consolidated Nuclear Research Institute

SOV/105-60-1-2/25

in brief. The control system of the converter is supplied by an auxiliary generator (on the shaft of the main generator). The firing of the ignitrons is controlled with the help of a customary thyatron-condenser-circuit. This produces an impulse at the igniter lasting from 200 to 250 milliseconds at peak amperages of from 40 to 60 a. The phase shift between the controller impulses corresponding to the rectifier- and the inverter method of operation, amounts to approximately 140 degrees. The moment of the beginning of the method of operation as rectifier (of the converters) is controlled by a pickup with a contact system which conveys the signal to the trigger. In order to warrant the homogeneity of the magnetic field and to reduce the influence of residual magnetism on the magnetic field, the magnetic system is demagnetized during the interval of the main cycle. This is done with the help of impulses of the current of different polarity with an amplitude decreasing in accordance with a certain law. These demagnetizing impulses are produced by 2 converters with ignitrons of type IVU 100/1500. During backfiring, the converter is protected by back current quick-break switches. Each of the converters is protected against

Card 3/4

h0739

S/120/62/000/004/004/047
E194/E420

AUTHORS: Monoszon, N.A., Stolov, A.M., Gashev, M.A.,
Spevakova, F.M., Yavno, A.Kh., Kornakov, Ye.V.,
Kulakov, F.M., Nadgornyy, V.P., Gorshkova, Ye.G.

TITLE: The supply system for the electromagnet of a proton-
synchrotron of 7 GeV

PERIODICAL: Pribery i tekhnika eksperimenta, no.4, 1962, 27-33

TEXT: The article describes the supply system for an electro-
magnet, the field of which increases at the steady rate of
 6.7×10^3 Oe/sec to reach a maximum value of 9300 Oe in 1.55 sec
and then falls off exponentially in 0.8 sec, the repetition
frequency is 10 to 12 cycles per minutes. The voltage on the
electromagnet is increased from 5000 to 10250 V with a maximum
current of 2500 A. An induction motor of 3500 kW, 6 kV,
740 rpm drives through a fluid coupling a 6 phase alternator of
peak output 37500 kW, 8.2 kV, and an auxiliary generator of
250 kW, 380 V for auxiliary supply to the 12-phase ignitron
rectifier. During the current decrement period the rectifier
operates as an inverter. A description of the smoothing circuit
Card 1/2

24.6730

S/120/62/000/004/030/047
E140/E420

AUTHORS: Kulakov, F.M., Kardash, A.A., Bobovikov, R.S.,
~~Spevakova, F.M.~~, Gol'din, L.L., Kleopov, I.F.,
Koshkarev, D.G., Radkevich, I.A., Sokolovskiy, V.V.,
Sharnov, B.I.

TITLE: The system for magnetic field correction of the
proton synchrotron.

PERIODICAL: Priory i tekhnika eksperimenta, no.4, 1962, 158-167

TEXT: The magnetic field configuration in the strong-focused
7 Gev machine is adjusted by a series of correction systems
permitting the betatron oscillation frequency to be controlled
and resonance disturbances of the orbit to be eliminated. The
system used for field correction is described together with the
system for switching and exciting the windings, with experimental
data on their effect on the beam. The windings permit
adjustment of the magnetic field decay index, the azimuthal
asymmetry of the field, compensation of the nonlinear distortion
of the field with saturation, correction of the position of the
neutral plane and the differences between the focusing and
Card 1/2

24.6730

S/120/62/000/004/031/047
E140/E420

AUTHORS: Monoszon, N.A., Stolov, A.M., Spevakova, F.M.

TITLE: The influence of parasitic parameters of the proton synchrotron electromagnets on the asymmetry of the magnetic field and methods of compensating it

PERIODICAL: Pribery i tekhnika .eksperimenta, no.4, 1962, 168-171

TEXT: The strictest requirements on symmetry of the magnetic field occur at the point of injection, where the excitation current is lowest. At the start of each acceleration cycle a constant potential is applied to the electromagnet winding with a fairly steep wavefront. The presence of parasitic conductance and shunt capacitance in the system (Fig.1, equivalent circuit) gives rise to transient asymmetry. The article describes a potentiometric system of correction for these distortions. There are 7 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute for Electrophysical Apparatus GKAE)

Card 1/2

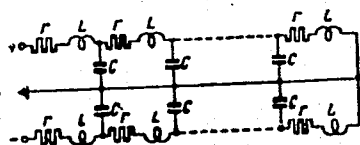
VB

The influence of parasitic ...

S/120/62/000/004/031/047
E140/E420

SUBMITTED: April 6, 1962

Fig.1.



Card 2/2

KULAKOV, F.M.; KARDASH, A.A.; BOBOVIKOV, R.S.; SPEVAKOVA, F.M.;
GOL'DIN, L.L.; KLEPOV, I.F.; KOSHKAREV, D.G.; RADKEVICH, I.A.;
SOKOLOVSKIY, V.V.; SHARNOV, B.I.

Magnetic field correction systems for a proton synchrotron.
Prib. i tekh. eksp. 7 no.4:158-167 J1-Ag '62.
(MIRA 16:4)

1. Institut teoreticheskoy i eksperimental'noy fiziki Gosu-
darstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR
i Nauchno-issledovatel'skiy institut elektrofizicheskoy
apparatury Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy
energii SSSR.

(Synchrotron) (Magnetic fields)

BOBOVIKOV, R.S.; PLETENEV, B.V.; SPEVAKOVA, F.M.; STOLOV, A.M.

Principles of the construction of resonance systems of supply
of synchrotron electromagnets. Elektrofiz. app. no.2:189-
198 '64. (MIRA 18:3)

1 13271-65

ACCESSION NR: AP4047415

ber by a vortical electric field, and acts as an equivalent secondary turn of a pulse transformer. The produced plasma pinch is stabilized with a longitudinal magnetic field of a toroidal solenoid, inside which the vacuum chamber is located. The magnetic core of the pulse transformer carries the primary vortical-field winding, the demagnetization winding, and the winding for induction heating. The setup is fed from special power systems. The electromagnetic system, the power supply, and the vacuum system are described in some detail. The longitudinal field intensity reaches 40 kG. The vortical field values are 250 and 50 V per turn with pulse durations 10 and 50 milliseconds, and with programming of the waveform such as to maintain a constant current in the plasma pinch. The power supply delivers a peak power of 77,000 kW, maximum 7000 A, no-load voltage 11 kV, and stored energy 180 million Joules. The vortical field is fed from four capacitor banks rated 1000 μ F at 20 kV, 11,000 μ F at 10 kV, 78,000 μ F at 5 kV, and 30,000 μ F at 5 kV. The capacitor-bank parameters can be varied over a wide range. The vacuum in the liner does

Card 2/3

SPEY, R., mgr., rer.econ. (Berlin)

Industrial development of the German Democratic Republic.
Przegl techn 79 no.11/12:471-475 N-D '58.

S/137/62/000/002/106/14-
A060/A101

AUTHORS. Speyser, R., Spretnak, Dzh.

TITLE. Role of adsorption along grain boundaries in the process of corrosion cracking

PERIODICAL. Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 86 - 87, abstract 21589 (V sb. "Korrozion, rastreskivaniye i khрупkost'", Moscow, Mashgiz, 1961, 91 - 103)

TEXT. The adsorption along the grain boundaries is considered, without taking into account the structure peculiarities of the surface layer, from the viewpoint of thermodynamics. Along the grain boundaries there occurs the positive adsorption of that component for which the surface tension is lower, and for non-ideal solutions with positive deviations from Raoult's law the excess concentration of the second component in the surface layer will be greater. The behavior of the separated out second phase depends upon the diagram of the equilibrium and metastable states of the alloy under consideration, which may change in the process of separation of the second phase; since to every system of alloys there corresponds a set of their characteristic changes, it is impossible to make

Card 1/2

SPENCER, T.; AGISHEV, A.P.; ELEZHOV, A.I.

Brief news. Gz. proc. 8 to 12:48-51 '63 (MIRA 18:2)

CA 27

Utilization of the products of flameless combustion for blowing out of the apparatus in the hydrogenation of fats. M. R. Ravich and V. Spelsker, *Mashinobnoe Zhurno*, Delo 15, No. 6, 11-13 (1939).—The possible utilization of gas products (contg. chiefly CO_2 and N_2) of various furnaces for flameless (catalytic) combustion (cf. C. A. 33, 8344^b) for the displacement of explosive mixts. from the app. used in the hydrogenation of fats is tentatively discussed.

Chas. Blanc

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
<p><i>ca</i> <i>21</i></p> <p>The utilization of gaseous fuels in the chemical industry. M. B. Ravich and Y. A. Spal'kov. <i>J. Chem. Ind. (U. S. S. R.)</i> 10, No. 4, 1-6(1941); <i>Chem. Zentr.</i> 1943, I, 204.-- Various processes and app. for surface combustion of industrial gases that can be used successfully in the chem. industry are discussed. W. R. Henn</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
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SPYSHER, V. A.

PA 51T13

USSR/Engineering
Furnaces, Gas
Fuel - Conservation

Jan 1948

"Increasing the Economy of Furnaces Operating on
Gaseous Fuels," V. A. Spysher, Candidate Tech Sci,
67 pp

"Za Ekou Topliva" No 1

Discusses methods to increase economy factor in gas
furnaces, advantages of premixing gas with preheated
air, flameless combustion of gases having high meth-
ane content, and some questions on injection of high
calory gas into the preheated air. States that advan-
tages of this flameless combustion of gas are such

LC

USSR/Engineering (Contd)

Jan 1948

that it would be to the advantage of the State to see
that all industries dealing with thermal processing
or smelting with gas furnaces, adopt this method.

LC

51T13

SPEYSHER, V. A.

27071 SPEYSHER, V. A.; TROITSKAYA, F. B. Besplamennoye szhiganiye vysokokaloriynykh gazov v gorelkakh s inzhektsiyey podogretogo vozdukha. Za ekonomiyu topliva, 1949, No.8, s. 5-9.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

RESEARCH, V. A.

USSR/Fuel - Gas, Natural

Combustion, Flameless

Jul 50

"Flameless Combustion of Natural Gas in Large Burners," V. A. Speysheer, Cand Tech Sci, A. Ye. Kucheruk, P. N. Mayevskiy, V. M. Novikov, Engineers

"Elek Stants" No 7, pp 6-11

Describes experiments on various types of large burners leading to conclusion that it is possible to turn over to flameless heating in low-capacity steam boilers operating on gaseous fuel. Editor states further research will be necessary before use of flameless combustion leads to any radical reduction in size of

162T35

USSR/Fuel - Gas, Natural (Contd)

Jul 50

boiler units. One of the experiments was made at L'vov hydroelectric power station under Prof M. B. Ravich.

162T35

SPEYSHER, V. A.

USSR/Engineering - Heat

FD-1134

Card 1/1 Pub. 41-15/17

Author : Speysher, V. A., Moscow

Title : Limits of stability of gas combustion in "tunnel"-type burner

Periodical : Izv. AN SSSR. Otd. tekhn. nauk 6, 145-150, Jun 1954

Abstract : Describes experimental apparatus and gives results of experimental investigation of range of stability of combustion of a mixture of town gas and air in "tunnel" burners of various diameters. Diagrams; graphs. Seven references.

Institution :

Submitted : April 28, 1954

SPEYSHER, V. A.

U S S R .

Combustion stability of low-calorific power gas in a tunnel-type burner. V. A. Spelsker. *Izvest. Akad. Nauk U.S.S.R., Otdel. Tekh. Nauk* 1954, No. 11, 120-33. The combustion of low B.t.u. gas obtained by diln. of city gas with inert gases was studied in a special lab. app., which is described. The results indicate that the permissible diln. of the gas increases with lower flow rates. Curves show the relation between the permissible air excess at different gas dilns., and the limiting outlet-gas velocity. The studies were extended to the study of combustion in the underground gasification of coal. W. M. Sternberg

SPEYSHER, Vladimir Anatol'yevich; ANDREYEV, Vladimir Il'ich; KHITRIN, L.N.,
otvetstvennyy redaktor; GRIGOR'YEV, Ye.N., redaktor izdatel'stva;
POLYAKOVA, T.V., tekhnicheskij redaktor

[Combustion of gas obtained by underground gasification in tunnel
burners with premixtures] Szhiganie gaza podzemnoi gazifikatsii v
tunnel'nykh gorelках predvaritel'nogo smesheniia. Moskva, Izd-vo
Akademii nauk SSSR, 1956. 67 p. (MLRA 9:7)

1. Chlen-korrespondent AN SSSR (for Khitrin)
(Coal gasification) (Combustion)